

Series AS2 and AS3 FRLs

Filters-Regulators-Lubricators



Compr. air maintenance unit, series AS3-Metric

FR+ L Maintenance unit AS3-ACD, 2-in-1, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data		
Type	Filter Pressure regulator	Filter insert exchangeable Diaphragm-type pressure regulator with secondary air exhaust Regulator head lockable
	Lubricator	Standard oil-mist lubricator with automatic oil filling Fill level – sight glass with slotted screw adjustment for oil metering Can be filled with oil during operation
Supply pressure	Condensate drain	semi-automatic: 0.5 - 16 bar (7 - 232 psi) fully automatic: 1.5 - 16 bar (21 - 232 psi)
Secondary pressure		See table
Nominal flow	Q _n	See table
Secondary pressure = 6,3 bar (87 psi) and Δp = 1 bar (15 psi)		
Temperature range		-10° to +50 °C (14 °F to +122 °F) *
Medium		Compressed air
Weight		See table
Installation position		Vertical
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS Cellpor (Polyethylene)
Reservoir capacity	Filter Lubricator	49 cm³ (1.6 U.S. Fl. oz.) (semi-automatic) 80 cm³ (2.7 U.S. Fl. oz.)
Filter porosity		5 μm
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	



* with dried air

Filter for separating solid impurities up to 5 μm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

Oil type: HL 68 (DIN 51 524 - ISO VG 68)

Standard values for oil metering: 1-2 drops / min at a nominal flow rate of Q_n = 1000 NI/ min (35.30 SCFM)

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.

► - semi and fully automatic condensate drain *

*either opened without pressure (NO) or closed without pressure (NC)

Part no.						
Symbol	Threaded ports	Nominal flow Q _n [l/min] (SCFM)	Secondary pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no. with pressure gauge
	G 3/8	3500 (123)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, without pressure: open	1,018 (2.244)	R412007298
	G 3/8	3500 (123)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, without pressure: open	1,067 (2.352)	R412007299
	G 3/8	3500 (123)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, without pressure: closed	1,067 (2.352)	R412007300
	G 1/2	3500 (123)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, without pressure: open	1,018 (2.244)	R412007307
	G 1/2	3500 (123)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, without pressure: open	1,067 (2.352)	R412007308
	G 1/2	3500 (123)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, without pressure: closed	1,067 (2.352)	R412007309

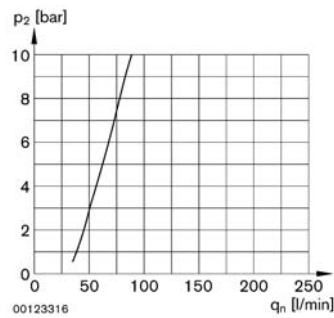
Accessories (to be ordered separately)		
Accessory		Part no.
	Spare parts kit: see filter pressure regulator valve AS3-FRE and normal mist lubricator AS3-CBS	
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
Pneumatic oil, 1 liter		1829990046

Compr. air maintenance unit, series AS3-Metric

FR+L Maintenance unit AS3-ACD, 2-in-1, G 3/8 - G 1/2, ATEX approved

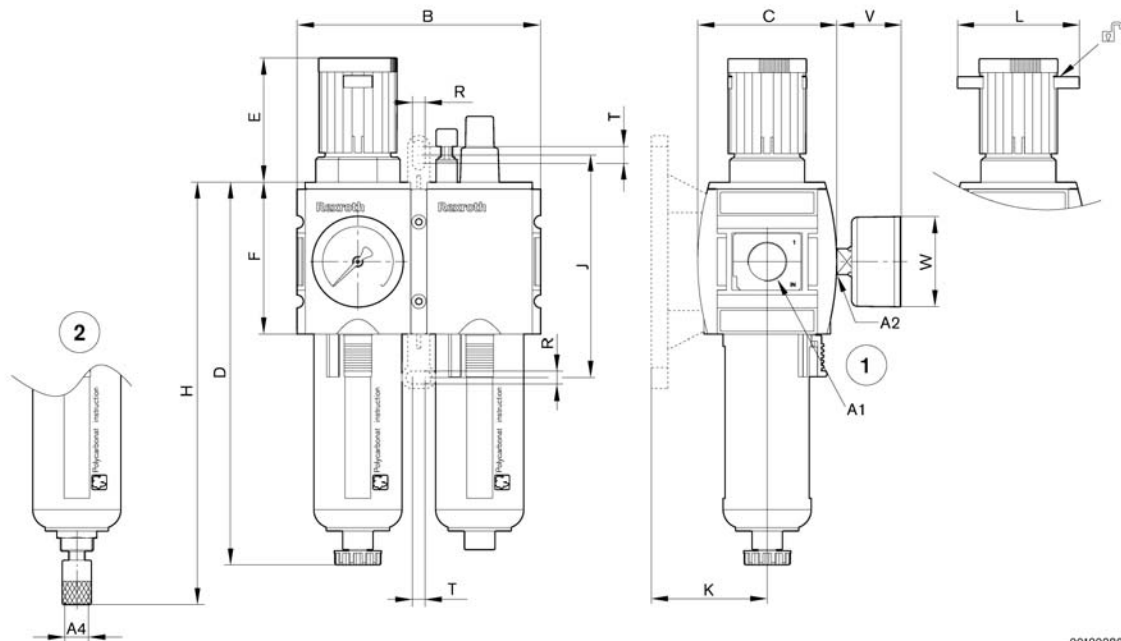
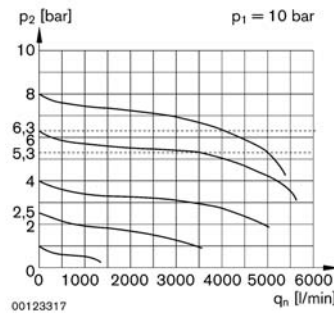
Rexroth
Bosch Group

Lubrication activation margin



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow;
 $q_{n \min.}$ = Min. nominal flow

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar) (7 to 145 psi)



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- 1) Semi-automatic condensate drain
2) Fully automatic condensate drain

A1	A2	A4	B	C	D	E	F	H	J	K	L	R	T	V	W
G 3/8	G 1/4	G 1/8	126	74	189,5	63,5	80	206	104	71	59	6,4	8	32	50
G 1/2	G 1/4	G 1/8	126	74	189,5	63,5	80	206	104	71	59	6,4	8	32	50

Compr. air maintenance unit, series AS3-Metric

FRL Maintenance unit AS3-ACT, 3-in-1, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Filter Pressure regulator Lubricator	Filter insert exchangeable Diaphragm-type pressure regulator with secondary air exhaust Standard oil-mist lubricator with automatic oil filling Fill level – sight glass with slotted screw adjustment for oil metering Can be filled with oil during operation semi-automatic: 0.5 - 16 bar (7 - 232 psi) fully automatic: 1.5 - 16 bar (21 - 232 psi) See table See table
Supply pressure	Condensate drain	
Secondary pressure		
Nominal flow	Q _n	See table
Secondary pressure = 6,3 bar (87 psi) and Δp = 1 bar (15 psi)		
Temperature range		-10° to +50 °C (14 °F to +122 °F) *
Medium		Compressed air
Weight		See table
Installation position		Vertical
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS Cellpor (Polyethylene)
Reservoir capacity	Filter Lubricator	49 cm ³ (1.6 U.S. Fl. oz.) (semi-automatic) 80 cm ³ (2.7 U.S. Fl. oz.)
Filter porosity		5 μm
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Filter for separating solid impurities up to 5 μm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

Oil type: HL 68 (DIN 51 524 - ISO VG 68)

Standard values for oil metering: 1-2 drops / min at a nominal flow rate of Q_n = 1000 l / min (35.30 SCFM)

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.

► - semi and fully automatic condensate drain*

* either opened without pressure (NO) or closed without pressure (NC)



Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min] (SCFM)	Secondary pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no. with pressure gauge
	G 3/8	3500 (123)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, without pressure: open	1,353 (2.983)	R412007318
	G 3/8	3500 (123)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, without pressure: open	1,402 (3.091)	R412007319
	G 3/8	3500 (123)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, without pressure: closed	1,402 (3.091)	R412007320
	G 1/2	3500 (123)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, without pressure: open	1,353 (2.983)	R412007327
	G 1/2	3500 (123)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, without pressure: open	1,402 (3.091)	R412007328
	G 1/2	3500 (123)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, without pressure: closed	1,402 (3.091)	R412007329

Accessories (to be ordered separately)

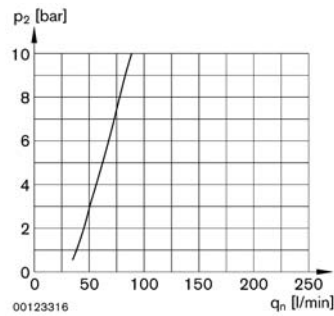
	Accessory	Part no.
	Spare parts kit: see filter pressure regulator valve AS3-FRE and normal mist lubricator AS3-CBS	
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
	Pneumatic oil, 1 liter	1829990046

Compr. air maintenance unit, series AS3-Metric

FRL Maintenance unit AS3-ACT, 3-in-1, G 3/8 - G 1/2, ATEX approved

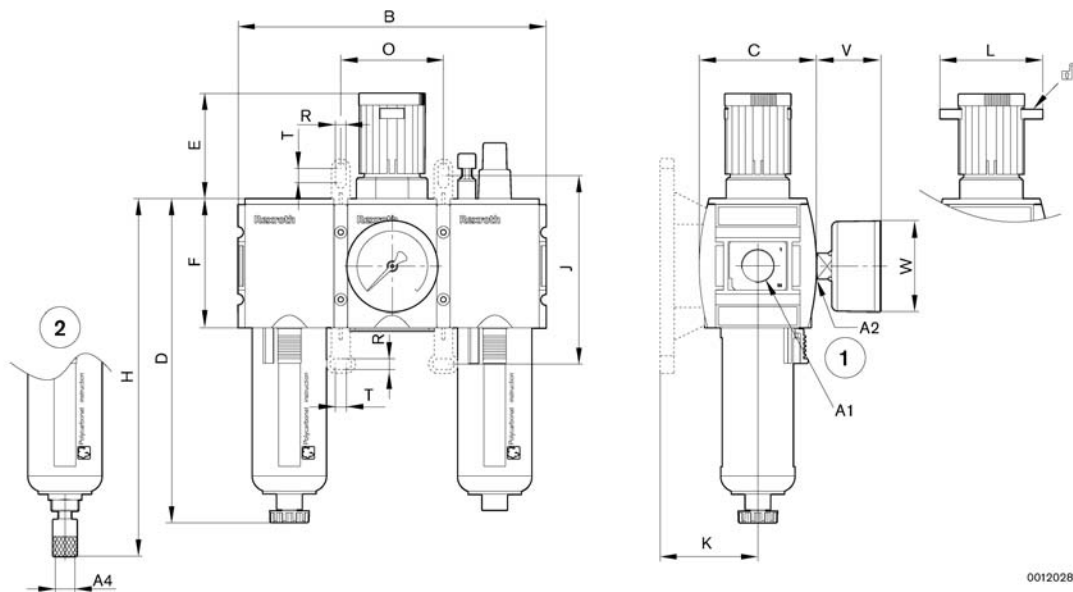
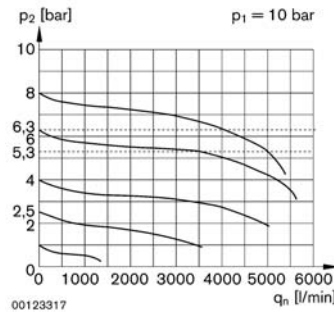
Rexroth
Bosch Group

Lubrication activation margin



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow;
 $q_{n \min.}$ = Min. nominal flow

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar) (7 to 145 psi)



- 1) Semi-automatic condensate drain
- 2) Fully automatic condensate drain

A1	A2	A4	B	C	D	E	F	H	J	K	L	O	R	T	V	W
G 3/8	G 1/4	G 1/8	189	74	189,5	63,5	80	206	104	71	59	63	6,4	8	32	50
G 1/2	G 1/4	G 1/8	189	74	189,5	63,5	80	206	104	71	59	63	6,4	8	32	50

Compr. air maintenance unit, series AS3-Metric

Pressure regulator AS3-RGS, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Diaphragm-type pressure regulator with secondary air exhaust	
Supply pressure	16 bar (232 psi)	
Secondary pressure	See table	
Nominal flow	Q _n	See table
[l/min]	See table	
Secondary pressure = 6 bar (87 psi) and Δp = 1 bar (15 psi)		
Temperature range	-10° to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	any	

Materials	Body	PA 66, seals Buna-N(NBR)
	Thread insert	Die-cast zinc

ATEX	In zone 1 (gas-ex, category 2G)
	In zone 21 (dust-ex, category 2D)
	In zone 2 (gas-ex, category 3G)
	In zone 22 (dust-ex, category 3D)

* with dried air



Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. with pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,600 (1.323)	R412007101
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,600 (1.323)	R412007103
	G 3/8	5000 (176)	0,2 - 4 (2 - 58)	0,600 (1.323)	R412007105
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,600 (1.323)	R412007107
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,600 (1.323)	R412007109
	G 3/8	3500 (123)	0,5 - 16 (7 - 232)	0,600 (1.323)	R412007111
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,600 (1.323)	R412007113
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,600 (1.323)	R412007115
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,600 (1.323)	R412007117
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,600 (1.323)	R412007119
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,600 (1.323)	R412007121
	G 1/2	4000 (141)	0,5 - 16 (7 - 232)	0,600 (1.323)	R412007123

Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. without pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007100
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007102
	G 3/8	5000 (178)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007104
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007106
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007108
	G 3/8	3500 (123)	0,5 - 16 (7 - 232)	0,528 (1.164)	R412007110
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007112
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007114
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007116
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007118
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007120
	G 1/2	4000 (141)	0,5 - 16 (7 - 232)	0,528 (1.164)	R412007122

Accessories (to be ordered separately)

	Accessory	Part no.
	Pressure regulator valve seal kit	R961400144
	Mounting plate AS3-MBR-...-W01 (incl. 2 bolts)	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
	Control panel nut AS3-MBR-...-W06	R412007372
	Pressure gauge Ø 50, G 1/4 *	R412004XXX

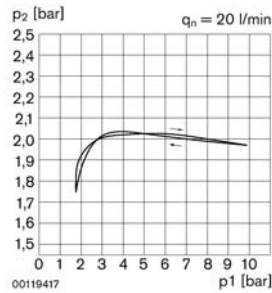
* see accessories

Compr. air maintenance unit, series AS3-Metric

Pressure regulator AS3-RGS, G 3/8 - G 1/2, ATEX approved

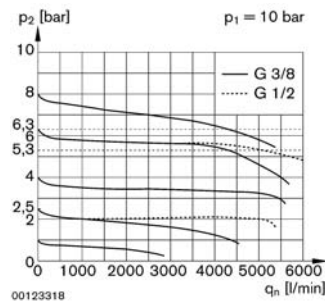
Rexroth
Bosch Group

Pressure characteristics curve

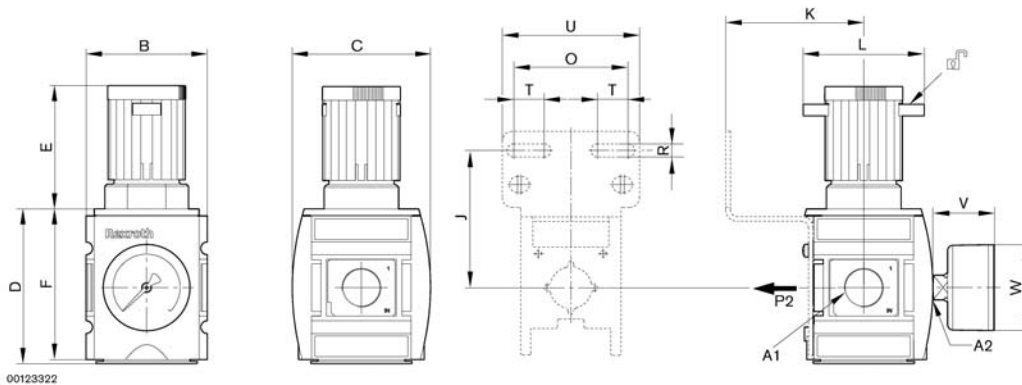


p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar / 7 to 116 psi)



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



A1	A2	B	C	D	E	F	J	K	L	O	R	T	U	V	W
G 3/8	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72	35	50
G 1/2	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72	35	50

Compr. air maintenance unit, series AS3-Metric

Pressure regulator AS3-RGS-...-DS, with continuous pressure supply,
G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Diaphragm-type pressure regulator with secondary air exhaust Lockable regulator head	
Supply pressure	16 bar (232 psi)	
Secondary pressure	See table	
Nominal flow Q_n	See table	
Secondary pressure = 6 bar (87 psi) and $\Delta p = 1$ bar (15 psi)		
Temperature range	-10° to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	Any	
Materials	Body Thread insert Cover	PA 66, seals Buna-N(NBR) Die-cast zinc ABS
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

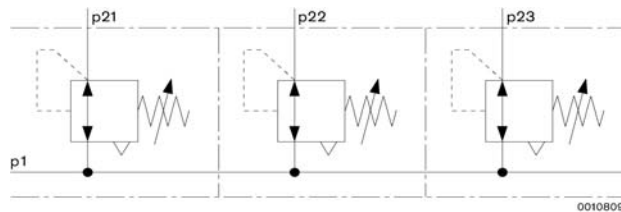
* with dried air

The p1 working pressure can be supplied from the left or the right in the device combination. With high nominal flows, a supply on both sides is recommended!

In the case of multiple regulator assemblies, only $\varnothing \leq 50$ can be used



Example of application



Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. without pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007124
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007125
	G 3/8	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007126
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007127
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007128
	G 3/8	3500 (123)	0,5 - 10 (7 - 232)	0,528 (1.164)	R412007129
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007130
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007131
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007132
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007133
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007134
	G 1/2	4000 (141)	0,5 - 16 (7 - 232)	0,528 (1.164)	R412007135

Accessories (to be ordered separately)

Accessory		Part no.
	Pressure regulator valve seal kit	R961400144
	Mounting plate AS3-MBR-...-W01 (incl. 2 bolts)	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038-...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012-...-W05	R412007367
	Control panel nut AS3-MBR-...-W06	R412007372
Pressure gauge $\varnothing 50$, G 1/4 *		R412004XXX

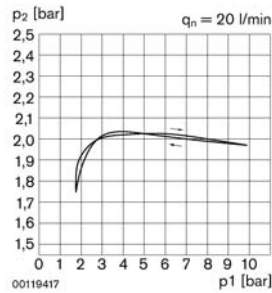
* see accessories

Compr. air maintenance unit, series AS3-Metric

Pressure regulator AS3-RGS-...-DS, with continuous pressure supply,
G 3/8 - G 1/2, ATEX approved

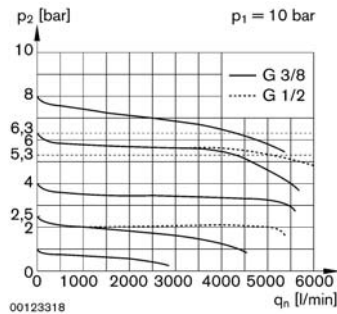
Rexroth
Bosch Group

Pressure characteristics curve

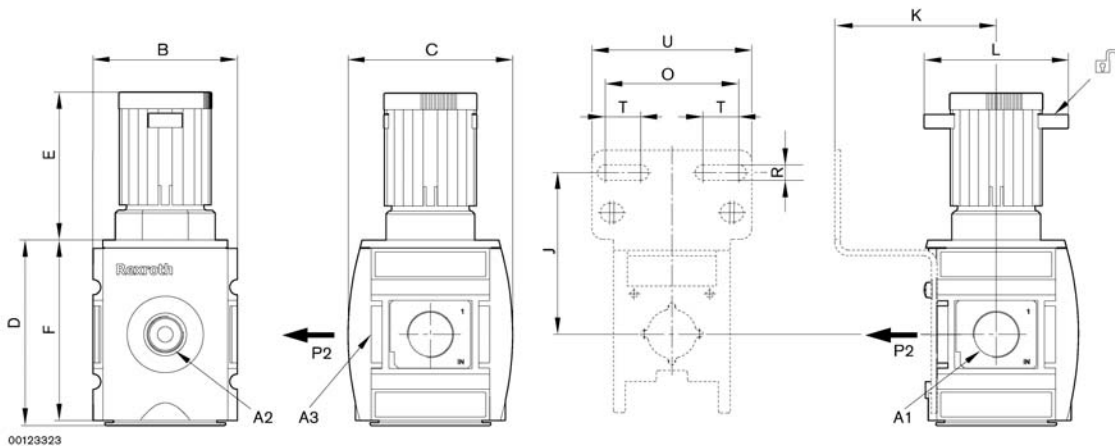


p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar / 7 to 116 psi)



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



p_2 = Secondary pressure

A1	A2	A3	B	C	D	E	F	J	K	L	O	R	T	U
G 3/8	G 1/4	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72
G 1/2	G 1/4	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72

Compr. air maintenance unit, series AS3-Metric

Precision pressure regulator AS3-RGP, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type Diaphragm-type pressure regulator
with secondary air exhaust
Lockable regulator head

Supply pressure 16 bar (232 psi)
Secondary pressure See table
Nominal flow Q_n See table
Secondary pressure = 6 bar (87 psi) and $\Delta p = 1$ bar (15 psi)
Temperature range -10° to +50 °C (14 °F to +122 °F) *
Medium Compressed air
Weight See table
Installation position Any

Materials	Body Thread insert Cover	PA 66, seals Buna-N(NBR) Die-cast zinc ABS
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* with dried air
Continuous air consumption = 2,6 NI / min (0.09 SCFM), depending on secondary pressure $p_2 = 6$ bar (87 psi)

ATEX In zone 1 (gas-ex, category 2G)
In zone 21 (dust-ex, category 2D)
In zone 2 (gas-ex, category 3G)
In zone 22 (dust-ex, category 3D)



Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. with pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,600 (1.323)	R412007137
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,600 (1.323)	R412007139
	G 3/8	5000 (178)	0,2 - 4 (2 - 58)	0,600 (1.323)	R412007141
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,600 (1.323)	R412007143
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,600 (1.323)	R412007145
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,600 (1.323)	R412007149
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,600 (1.323)	R412007151
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,600 (1.323)	R412007153
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,600 (1.323)	R412007155
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,600 (1.323)	R412007157

Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. without pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007136
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007138
	G 3/8	5000 (178)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007140
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007142
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007144
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007148
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007150
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007152
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007154
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007156

Accessories (to be ordered separately)

	Accessory	Part no.
	Pressure regulator valve seal kit	R961400145
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
	Control panel nut AS3-MBR-...-W06	R412007372
	Pressure gauge Ø 50, G 1/4 *	R412004XXX

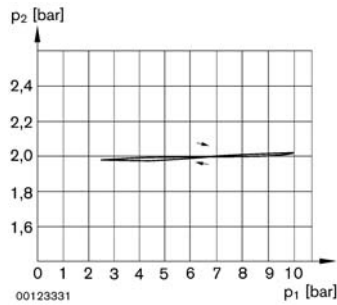
* see accessories

Compr. air maintenance unit, series AS3-Metric

Precision pressure regulator AS3-RGP, G 3/8 - G 1/2, ATEX approved

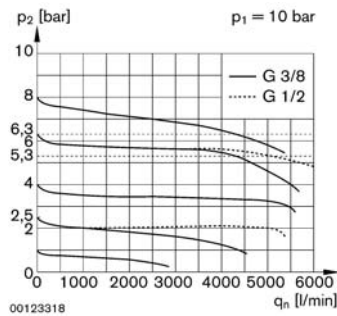
Rexroth
Bosch Group

Pressure characteristics curve

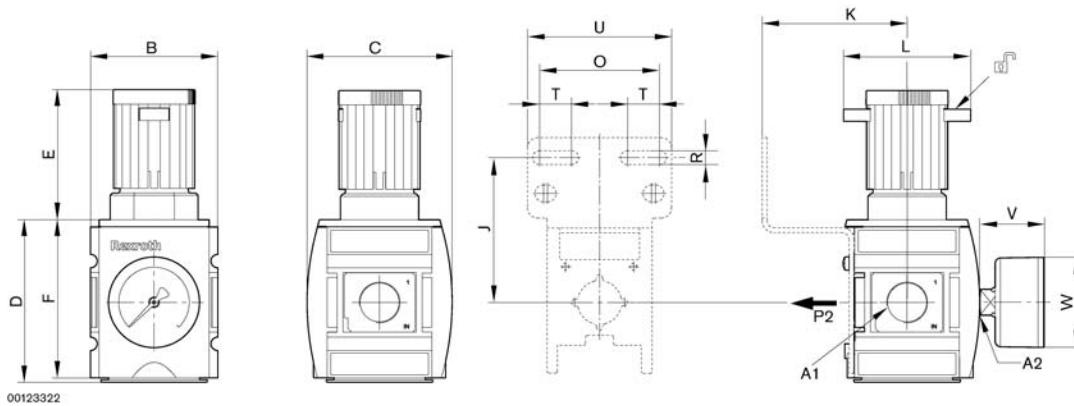


p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar / 7 to 116 psi)



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



A1	A2	B	C	D	E	F	J	K	L	O	R	T	U	V	W
G 3/8	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72	35	50
G 1/2	G 1/4	63	74	82	63,5	80	72,5	71	59	60	7	16	72	35	50

Compr. air maintenance unit, series AS3-Metric

Precision pressure regulator AS3-RGP-...-DS, with continuous pressure supply, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Diaphragm-type pressure regulator with secondary air exhaust Lockable regulator head	
Supply pressure	16 bar (232 psi)	
Secondary pressure	See table	
Nominal flow Q_n	See table	
Secondary pressure = 6 bar (87 psi) and $\Delta p = 1$ bar (15 psi)		
Temperature range	-10° to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	Any	
Materials	Body Thread insert Cover	PA 66, seals Buna-N(NBR) Die-cast zinc ABS
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

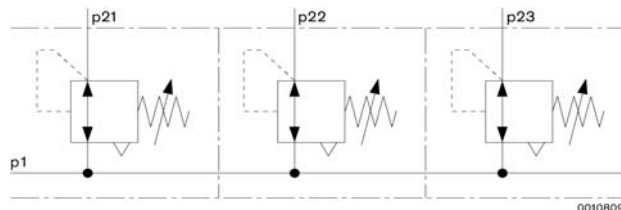
Continuous air consumption = 2,6 NI / min (0.09 SCFM), depending on secondary pressure $p_2 = 6$ bar (87 psi)

The p_1 working pressure can be supplied from the left or the right in the device combination. With high nominal flows, a supply on both sides is recommended!

In the case of block assembly, only gauge with $\varnothing \leq 50$ can be used



Example of application



Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min](SCFM)	Secondary pressure [bar](psi)	Weight [kg](lbs.)	Part no. without pressure gauge
	G 3/8	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007160
	G 3/8	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007161
	G 3/8	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007162
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007163
	G 3/8	4300 (151)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007164
	G 1/2	1600 (58)	0,1 - 1 (1 - 14)	0,528 (1.164)	R412007166
	G 1/2	4600 (162)	0,1 - 2 (1 - 29)	0,528 (1.164)	R412007167
	G 1/2	5000 (176)	0,2 - 4 (2 - 58)	0,528 (1.164)	R412007168
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	0,528 (1.164)	R412007169
	G 1/2	5200 (183)	0,5 - 10 (7 - 145)	0,528 (1.164)	R412007170

Accessories (to be ordered separately)

Accessory	Part no.
Pressure regulator valve seal kit	R961400145
Mounting plate AS3-MBR-...-W01	R412007368
Mounting strap AS3-MBR-...-W03	R412007370
Block assembly kit AS3-MBR-...-W04	R412007371
Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
Control panel nut AS3-MBR-...-W06	R412007372
Pressure gauge $\varnothing 50$, G 1/4 *	R412004XXX

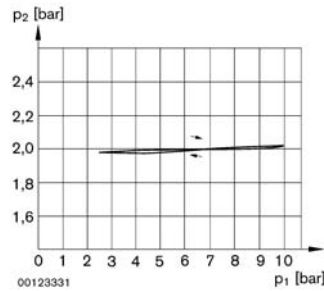
* see accessories

Compr. air maintenance unit, series AS3-Metric

Precision pressure regulator AS3-RGP-...-DS, with continuous pressure supply, G 3/8 - G 1/2, ATEX approved

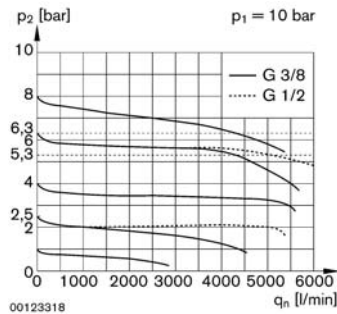
Rexroth
Bosch Group

Pressure characteristics curve

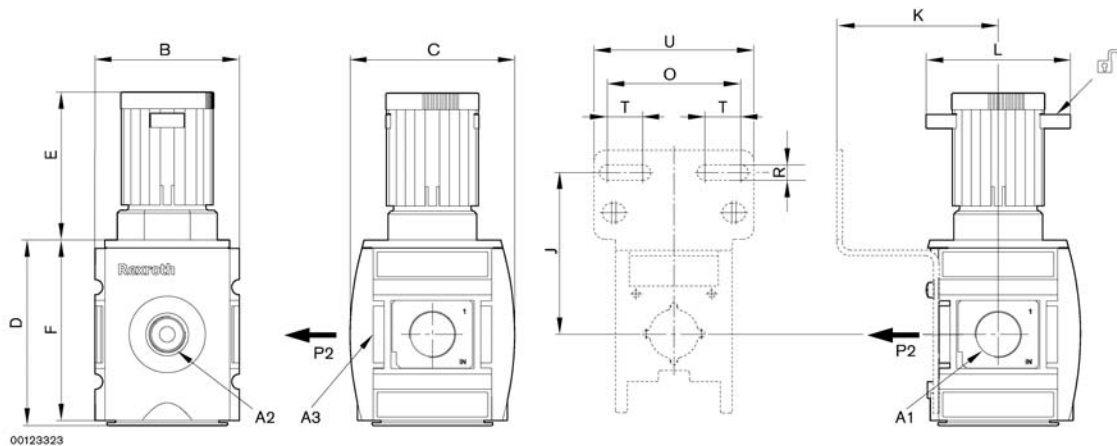


p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar / 7 to 116 psi)



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



p_2 = Secondary pressure

A1	A2	A3	B	C	D	E	F	J	K	L	O	R	T	U
G 3/8	G 1/4	G 1/4	63	74	82	63	80	72,5	71	59	60	7	16	72
G 1/2	G 1/4	G 1/4	63	74	82	63	80	72,5	71	59	60	7	16	72

Compr. air maintenance unit, series AS3-Metric

Filter regulator AS3-FRE, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Filter Pressure regulator	Filter insert exchangeable Diaphragm-type pressure regulator with secondary air exhaust Lockable regulator head
Supply pressure	Condensate drain	semi-automatic: 0.5 - 16 bar (7 - 232 psi) fully automatic: 1.5 - 16 bar (21 - 232 psi)
Secondary pressure		See table
Nominal flow	Q _n	See table
Secondary pressure = 6,3 bar (87 psi) and Δp = 1 bar (15 psi)		
Ambient temperature		-10°C to +50 °C (14 °F to +122 °F) *
Medium		Compressed air
Weight		See table
Installation position		Vertical
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS Cellpor (Polyethylene)
Reservoir capacity	–	49 cm ³ (1.6 U.S. Fl. oz.) (semi-automatic)
Filter porosity		5 μm
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Filter for separating solid impurities up to 5 μm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.



Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min] (SCFM)	Secondary pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no. with pressure gauge
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,658 (1.451)	R412007200
	G 3/8	4300 (151)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, w/out pressure: open	0,707 (1.559)	R412007201
	G 3/8	4300 (151)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,707 (1.559)	R412007202
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,658 (1.451)	R412007209
	G 1/2	5200 (183)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, w/out pressure: open	0,707 (1.559)	R412007210
	G 1/2	5200 (183)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,707 (1.559)	R412007211

Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min] (SCFM)	Secondary pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no. without pressure gauge
	G 3/8	4300 (151)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,586 (1.292)	R412007175
	G 3/8	4300 (151)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, w/out pressure: open	0,635 (1.400)	R412007176
	G 3/8	4300 (151)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,635 (1.400)	R412007177
	G 1/2	5200 (183)	0,5 - 8 (7 - 116)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,586 (1.292)	R412007184
	G 1/2	5200 (183)	1,5 - 8 (21 - 116)	PC container with PA protective guard fully automatic, w/out pressure: open	0,635 (1.400)	R412007185
	G 1/2	5200 (183)	0 - 8 (0 - 116)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,635 (1.400)	R412007186

Compr. air maintenance unit, series AS3-Metric

Filter regulator AS3-FRE, G 3/8 - G 1/2, ATEX approved

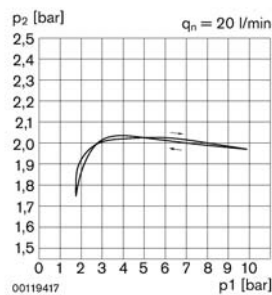
Rexroth
Bosch Group

▲ Accessories (to be ordered separately)

	Accessory	Part no.
	Filter reservoir AS3-CLS *	R4120073XX
	Filter insert, 5 µm	1829207068
	Pressure regulator valve seal kit	R961400144
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367
	Control panel nut AS3-MBR-...-W06	R412007372

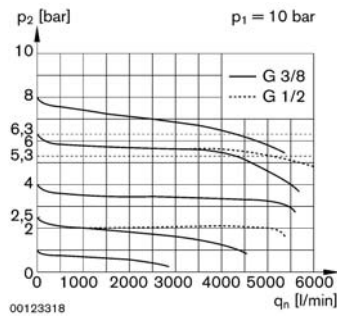
* see accessories

Pressure characteristics curve



p_1 = Supply pressure; p_2 = Secondary pressure; q = Flow rate

Flow rate characteristic (setting range p_2 : 0.5 to 8 bar) (7 to 116 psi)

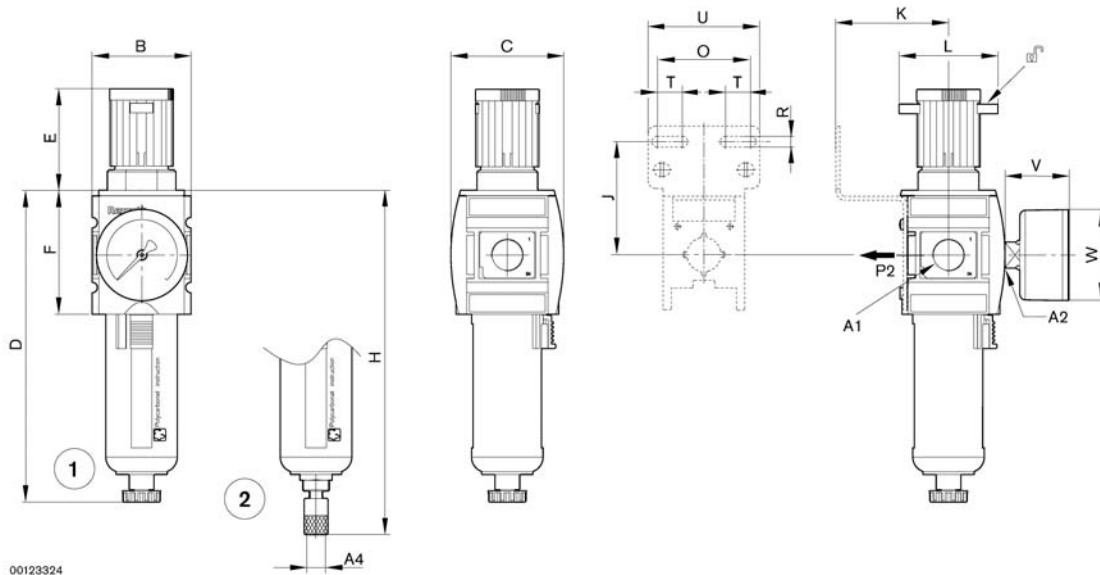


p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow; q = Flow rate

Compr. air maintenance unit, series AS3-Metric

Filter regulator AS3-FRE, G 3/8 - G 1/2, ATEX approved

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- 1) Semi-automatic condensate drain
2) Fully automatic condensate drain

A1	A2	A4	B	C	D	E	F	H	J	K	L	O	R	T	U	V	W
G 3/8	G 1/4	G 1/8	63	74	189,5	63,5	80	206	72,5	71	59	60	7	16	72	35	50
G 1/2	G 1/4	G 1/8	63	74	189,5	63,5	80	206	72,5	71	59	60	7	16	72	35	50

Compr. air maintenance unit, series AS3-Metric

Standard filter AS3-FLS, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Filter insert exchangeable
Supply pressure	See table
Ambient temperature	-10°C to +50 °C (14 °F to +122 °F) *
Medium	Compressed air
Weight	See table
Installation position	vertical
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS Cellpor (Polyethylene)
Reservoir capacity	49 cm³ (1.6 U.S. Fl. oz.) (semi-automatic)
Filter porosity	5 µm
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)

* with dried air

Filter for separating solid impurities up to 5 µm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

Optionally with a semi or fully automatic condensate drain

Condensate drain opened without pressure or closed without pressure.

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.



Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min] (SCFM)	Supply pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no.
	G 3/8	3500 (123)	0,5 - 16 (7 - 232)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,361 (0.796)	R412007000
	G 3/8	3500 (123)	1,5 - 16 (21 - 232)	PC container with PA protective guard fully automatic, w/out pressure: open	0,410 (0.904)	R412007001
	G 3/8	3500 (123)	0 - 16 (0 - 232)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,410 (0.904)	R412007002
	G 1/2	3500 (123)	0,5 - 16 (7 - 232)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,361 (0.796)	R412007009
	G 1/2	3500 (123)	1,5 - 16 (21 - 232)	PC container with PA protective guard fully automatic, w/out pressure: open	0,410 (0.904)	R412007010
	G 1/2	3500 (123)	0 - 16 (0 - 232)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,410 (0.904)	R412007011

Accessories (to be ordered separately)

	Accessory	Part no.
	Filter reservoir AS3-CLS * Filter insert, 5 µm Mounting plate AS3-MBR-...-W01 Mounting strap AS3-MBR-...-W03 Block assembly kit AS3-MBR-...-W04 Block assembly kit (G 3/8) AS3-MBR-G038...-W05 Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R4120073XX 1829207068 R412007368 R412007370 R412007371 R412007366 R412007367

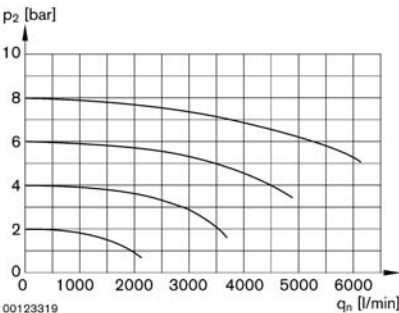
* see accessories

Compr. air maintenance unit, series AS3-Metric

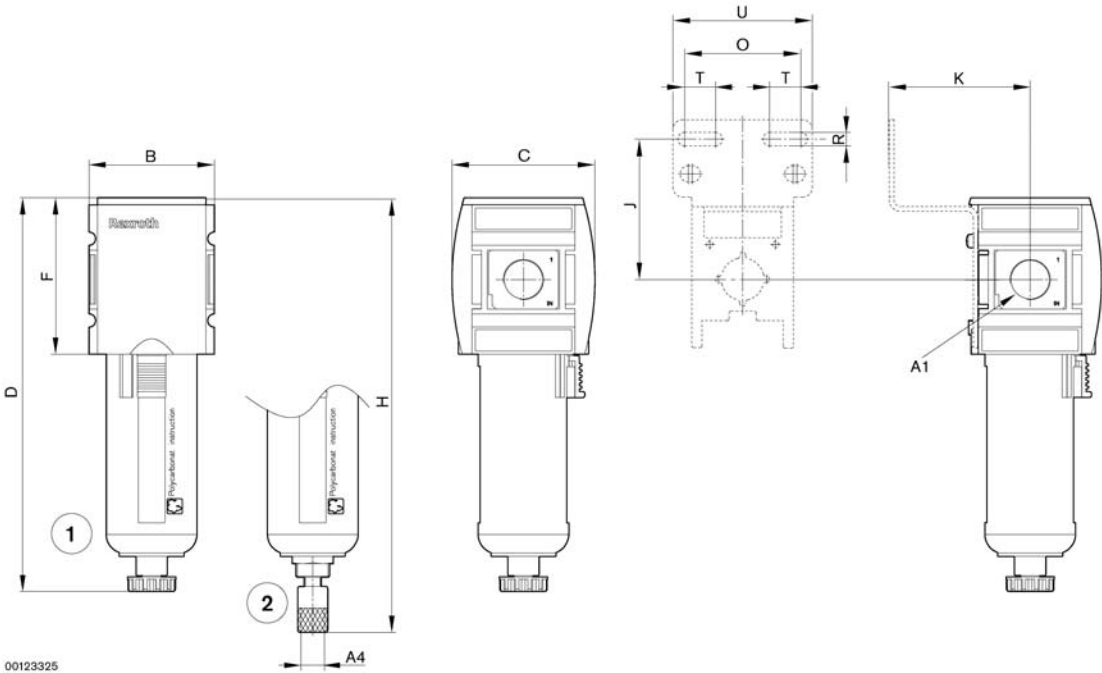
Standard filter AS3-FLS, G 3/8 - G 1/2, ATEX approved



Flow rate characteristic



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



- 1) Semi-automatic condensate drain
- 2) Fully automatic condensate drain

A1	A4	B	C	D	F	H	J	K	O	R	T	U
G 3/8	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72
G 1/2	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72

Compr. air maintenance unit, series AS3-Metric

Pre-filter AS3-FLP, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Pre-filter insert exchangeable	
Supply pressure	See table	
Temperature range	-10°C to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	vertical	
Materials	Body	PA 66, seals Buna-N(NBR)
	Thread insert	Die-cast zinc
	Reservoir	Polycarbonate with bayonet catch
	Bowl guard	PA
	Cover	ABS
	Filter element	Impregnated paper
Reservoir capacity	49 cm ³ (1.6 U.S. Fl. oz.) (semi-automatic)	
Filter porosity	0,3 µm	
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Pre-filter for separating solid impurities up to 0,3 µm from compressed air and gases

The filter element should be exchanged if there is an increase of Δp by max. 0.35 bar (5 psi) or once a year.

Dust separation = 99,99 %

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 2

- Humidity - water content: class 8

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.



Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min] (SCFM)	Supply pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no.
	G 3/8	580 (20)	0,5 - 16 (7 - 232)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,361 (0.796)	R412007018
	G 3/8	580 (20)	1,5 - 16 (21 - 232)	PC container with PA protective guard fully automatic, w/out pressure: open	0,410 (0.904)	R412007019
	G 3/8	580 (20)	0 - 16 (0 - 232)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,410 (0.904)	R412007020
	G 1/2	650 (22)	0,5 - 16 (7 - 232)	PC container with PA protective guard semi-automatic, w/out pressure: open	0,361 (0.796)	R412007027
	G 1/2	650 (22)	1,5 - 16 (21 - 232)	PC container with PA protective guard fully automatic, w/out pressure: open	0,410 (0.904)	R412007028
	G 1/2	650 (22)	0 - 16 (0 - 232)	PC container with PA protective guard fully automatic, w/out pressure: closed	0,410 (0.904)	R412007029

1) At $p_1 = 7$ bar (102 psi)

2) $\Delta p = 0,02$ bar (0.3 psi)

$Q = Q_n \times f$ (f = Correction factor for various supply pressures p_1)

p_1																
[bar]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	14	29	43	58	72	87	101	116	130	145	159	174	188	203	217	232
f	0,25	0,38	0,5	0,65	0,75	0,88	1	1,13	1,25	1,38	1,5	1,63	1,75	1,88	2	2,13

Accessories (to be ordered separately)

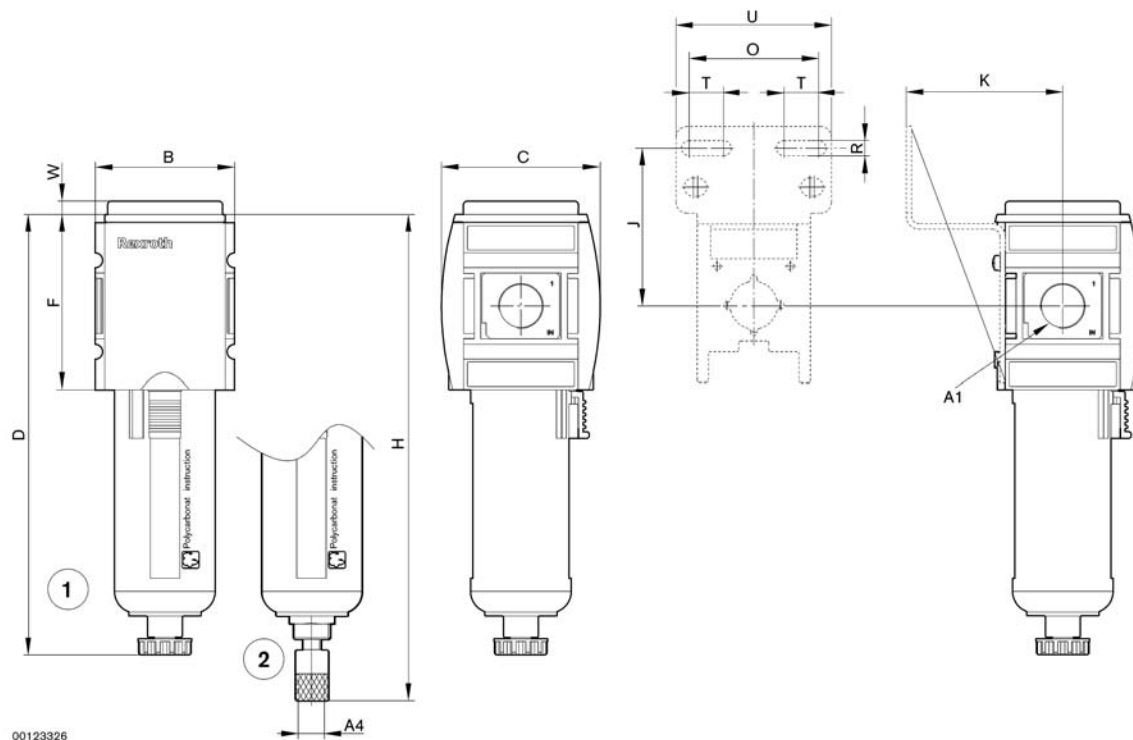
	Accessory	Part no.
	Pre-filter reservoir AS3-CLS *	R412007XXX
	Filter element	R961400140
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038-...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012-...-W05	R412007367

* see accessories

Compr. air maintenance unit, series AS3-Metric

Pre-filter AS3-FLP, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



- 1) Semi-automatic condensate drain
2) Fully automatic condensate drain

A1	A4	B	C	D	F	H	J	K	O	R	T	U	W
G 3/8	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72	5
G 1/2	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72	5

Compr. air maintenance unit, series AS3-Metric

Coalescing filter AS3-FLC, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Micro-filter insert exchangeable	
Supply pressure	See table	
Temperature range	-10 °C to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	vertical	
Materials	Body Thread insert Reservoir Bowl guard Cover Filter element	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS Borsilicate glass fibre
Reservoir capacity	49 cm³ (1.6 U.S. Fl. oz.) (semi-automatic)	
Filter porosity	0,01 µm	
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	
Standard	NFE 49004	

* with dried air

Micro filter for the separation of oil, water and solid impurities of up to 0.01 µm from compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 1

- Oil content: class 1

The filter element must be replaced after a pressure rise Δp of max. 0,35 bar (5 psi) or once a year.

Filter is resistant to mineral oils and synthetic oils

Oil separation, residual oil content < 0.01 mg/m³ at t = 20 °C (68 °F) and p1 = 7 bar (102 psi)

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.



Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min] (SCFM) 1) 2)	Supply pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no.
	G 3/8	750 (26)	0,5 - 16 (7 - 232)	PC container with PA protective guard without contamination display semi-automatic, without pressure: open	0,361 (0.796)	R412007036
	G 3/8	750 (26)	1,5 - 16 (21 - 232)	PC container with PA protective guard without contamination display fully automatic, without pressure: open	0,410 (0.904)	R412007037
	G 3/8	750 (26)	0 - 16 (0 - 232)	PC container with PA protective guard without contamination display fully automatic, without pressure: closed	0,410 (0.904)	R412007038
	G 1/2	1200 (42)	0,5 - 16 (7 - 232)	PC container with PA protective guard without contamination display semi-automatic, without pressure: open	0,361 (0.796)	R412007045
	G 1/2	1200 (42)	1,5 - 16 (21 - 232)	PC container with PA protective guard without contamination display fully automatic, without pressure: open	0,410 (0.904)	R412007046
	G 1/2	1200 (42)	0 - 16 (0 - 232)	PC container with PA protective guard without contamination display fully automatic, without pressure: closed	0,410 (0.904)	R412007047

1) At p1 = 7 bar (102 psi)

2) Δp = 0,09 bar (1.3 psi)

$Q = Q_n \times f$ (f = Correction factor for various supply pressures p1)

p1																
[bar]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]	14	29	43	58	72	87	101	116	130	145	159	174	188	203	217	232
f	0,25	0,38	0,5	0,65	0,75	0,88	1	1,13	1,25	1,38	1,5	1,63	1,75	1,88	2	2,13

Compr. air maintenance unit, series AS3-Metric

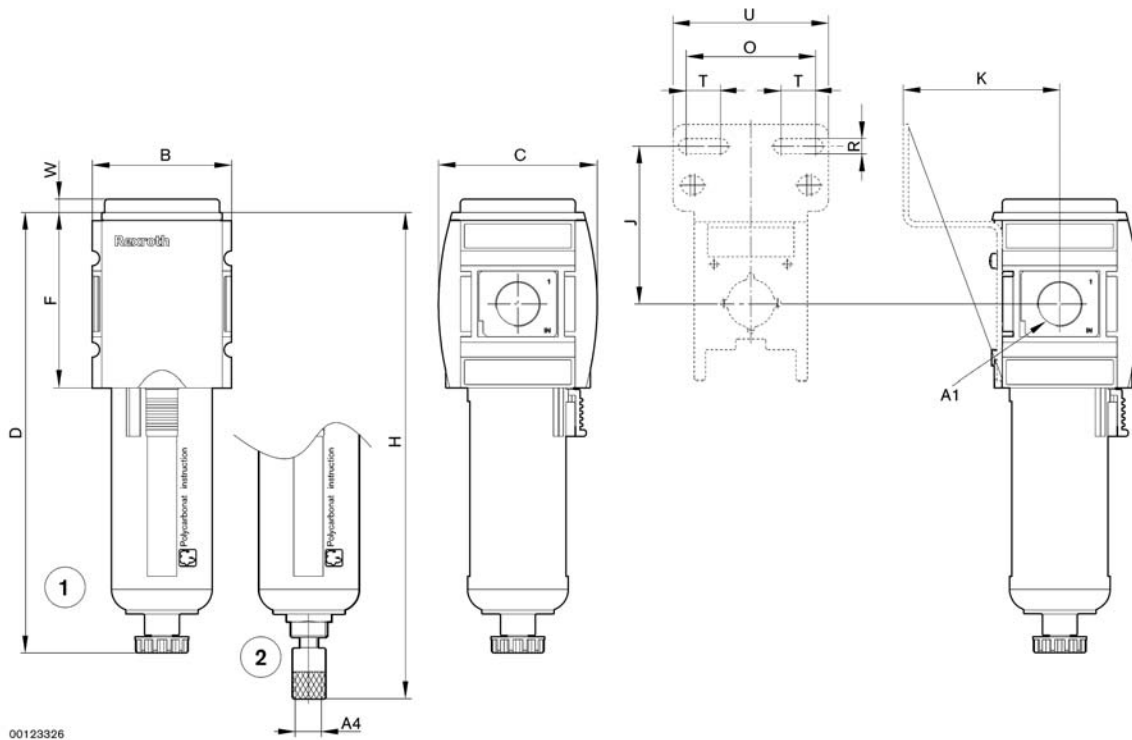
Coalescing filter AS3-FLC, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group

▲ Accessories (to be ordered separately)

	Accessory	Part no.
	Microfilter reservoir AS3-CLS *	R412007XXX
	Contamination display AS	R412006363
	Filter element	R961400141
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367

* see accessories



- 1) Semi-automatic condensate drain
2) Fully automatic condensate drain

A1	A4	B	C	D	F	H	J	K	O	R	T	U	W
G 3/8	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72	5
G 1/2	G 1/8	63	74	189,5	80	206	72,5	71	60	7	16	72	5

Compr. air maintenance unit, series AS3-Metric

Active carbon filter AS3-FLA, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Filter insert exchangeable	
Supply pressure	See table	
Temperature range	-10 °C to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	vertical	
Materials	Body Thread insert Reservoir Bowl guard Filter element Cover	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA Active carbon ABS
Reservoir capacity	49 cm ³ (1.6 U.S. Fl. oz.)	
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Active carbon filter for absorption of oil vapor in compressed air and gases

For quality classes according to DIN ISO 8573-1

- Solid impurities: class 3

- Humidity - water content: class 8

- Oil content: class 1

Oil separation, residual oil content < 0.005 mg/m³ at t = 20 °C (68 °F) and p₁ = 7 bar (102 psi)

A micro filter must be connected upstream as a prefilter



Part no.

Symbol	Threaded ports	Nominal flow Q _n [l/min](SCFM) 1) 2)	Supply pressure [bar](psi)	Weight [kg](lbs.)	Part no.
	G 3/8	1600 (56)	0 - 16 (0 - 232)	0,375 (0.827)	R412007072
	G 1/2	1850 (65)	0 - 16 (0 - 232)	0,375 (0.827)	R412007075

1) At p₁ = 7 bar (102 psi)

2) Δp = 0,2 bar (3 psi)

Q = Q_n x f (f = Correction factor for various supply pressures p₁)

		p ₁															
[bar]		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
[psi]		14	29	43	58	72	87	101	116	130	145	159	174	188	203	217	232
f		0,25	0,38	0,5	0,65	0,75	0,88	1	1,13	1,25	1,38	1,5	1,63	1,75	1,88	2	2,13

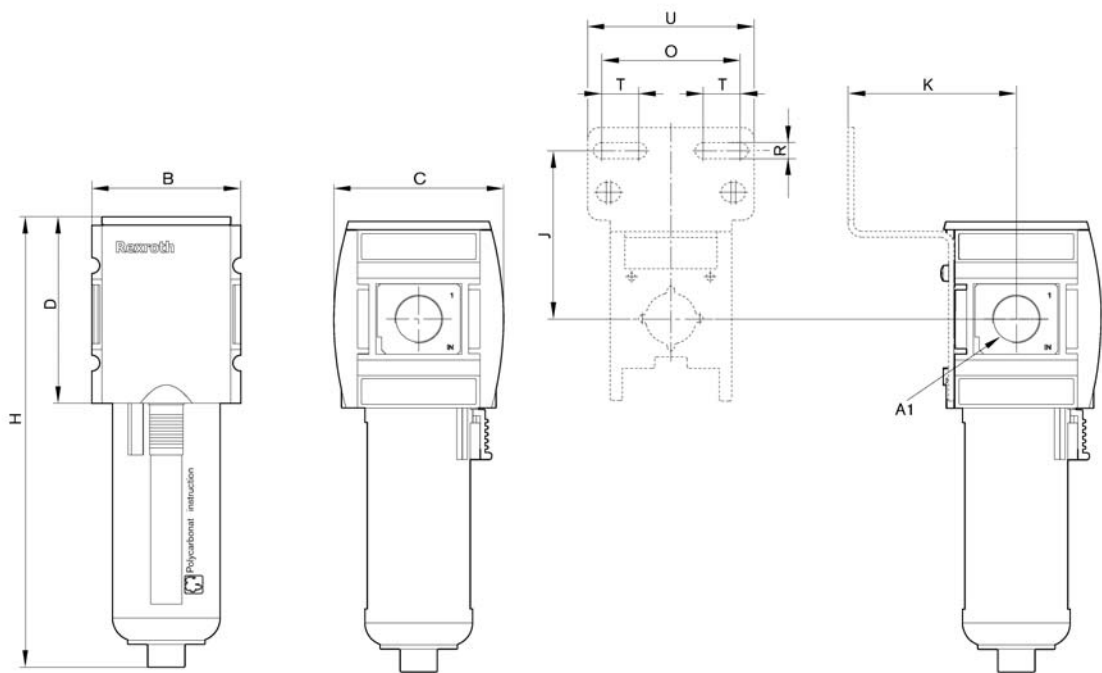
Accessories (to be ordered separately)

	Accessory	Part no.
	Active carbon filter reservoir AS3-CLA *	R412007347
	Active carbon filter insert	R961400143
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367

* see accessories

Compr. air maintenance unit, series AS3-Metric

Active carbon filter AS3-FLA, G 3/8 - G 1/2, ATEX approved



00123327

A1	B	C	D	H	J	K	O	R	T	U
G 3/8	63	74	80	183	72,5	71	60	7	16	72
G 1/2	63	74	80	183	72,5	71	60	7	16	72

Compr. air maintenance unit, series AS3-Metric

Normal mist lubricator AS3-LBS, with automatic oil filling,
G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Type	Inspection glass with slotted screw for oil metering Can be filled with oil during operation	
Supply pressure	See table	
Temperature range	-10 °C to +50 °C (14 °F to +122 °F) *	
Medium	Compressed air	
Weight	See table	
Installation position	vertical	
Materials	Body Thread insert Reservoir Bowl guard Seal	PA 66, seals Buna-N(NBR) Die-cast zinc Polycarbonate with bayonet catch PA ABS
Reservoir capacity	80 cm³ (2.7 U.S. Fl. oz.)	
ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)	

* with dried air

Oil type: HL 68 (DIN 51 524 - ISO VG 68)

Standard values for oil metering: 1-2 drops / min at a nominal flow rate of $Q_n = 1000 \text{ NI} / \text{min}$ (35.30 SCFM)

Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.

The unit is equipped with an automatic oil filling (standard). A threaded connector is located in the lower section of the container that can be used to connect a hose to the oil tank.

Pressing the oil top-up button opens a Venturi nozzle that provides a vacuum in the upper section of the container. This suctions the oil into the container.



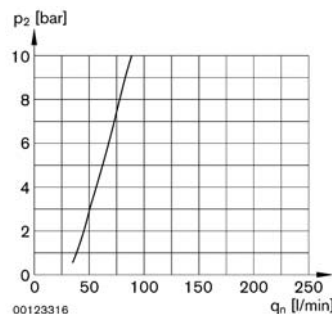
Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min] (SCFM)	Supply pressure [bar](psi)	Options	Weight [kg](lbs.)	Part no.
	G 3/8	8000 (282)	0,5 - 16 (7 - 232)	PC container with PA protective guard	0,343 (0.756)	R412007225
	G 1/2	8000 (282)	0,5 - 16 (7 - 232)	PC container with PA protective guard	0,343 (0.756)	R412007231

Accessories (to be ordered separately)

	Accessory	Part no.
	Normal-mist lubricator reservoir AS3-CBS *	R412007352
	Lubricator metering set, polycarbonate	R961400032
	Pneumatic oil, 1 litre	1829990046
	Mounting plate AS3-MBR-...-W01	R412007368
	Mounting strap AS3-MBR-...-W03	R412007370
	Block assembly kit AS3-MBR-...-W04	R412007371
	Block assembly kit (G 3/8) AS3-MBR-G038...-W05	R412007366
	Block assembly kit (G 1/2) AS3-MBR-G012...-W05	R412007367

Lubrication activation margin



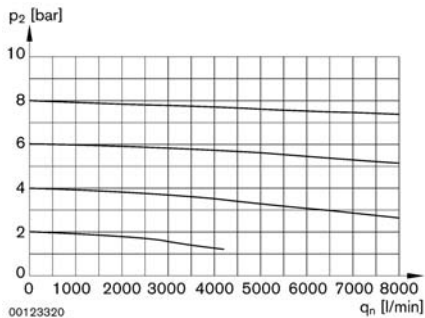
p_2 = Secondary pressure; $q_{n \min}$ = Min. nominal flow

Compr. air maintenance unit, series AS3-Metric

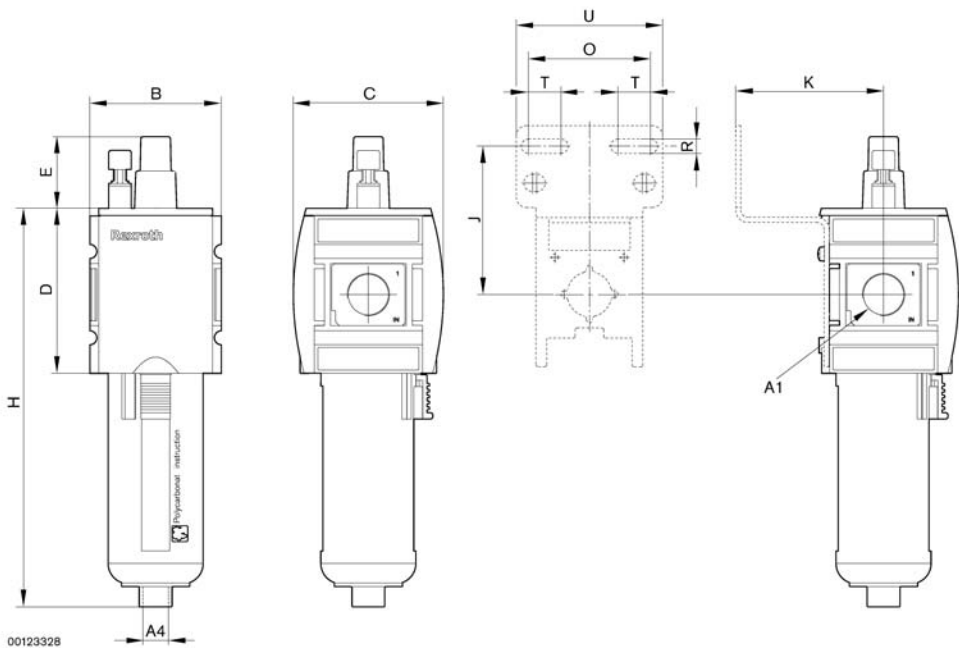
Normal mist lubricator AS3-LBS, with automatic oil filling,
G 3/8 - G 1/2, ATEX approved



Flow rate characteristic



p_1 = Supply pressure; p_2 = Secondary pressure; q_n = Nominal flow



A1	A4	B	C	D	E	H	J	K	O	R	T	U
G 3/8	G 1/8	63	74	80	26	183	72,5	71	60	7	16	72
G 1/2	G 1/8	63	74	80	26	183	72,5	71	60	7	16	72

Compr. air maintenance unit, series AS3-Metric

Distributor block AS3-DIS, 3-way, G 3/8 - G 1/2, ATEX approved

Rexroth
Bosch Group



Technical Data

Nominal flow	Q_n	See table
Operating pressure		0 - 16 bar (0 to 232 psi)
Ambient temperature range		-10 °C to +50 °C (14 °F to +122 °F) *
Medium		Compressed air
Weight		See table
Installation position		any

Materials	Body Threaded insert Cover	PA 66, seals Buna-N(NBR) Zn-die cast ABS
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ATEX	In zone 1 (gas-ex, category 2G) In zone 21 (dust-ex, category 2D) In zone 2 (gas-ex, category 3G) In zone 22 (dust-ex, category 3D)
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Suitable for flange assembly of a mechanical vacuum/pressure switch



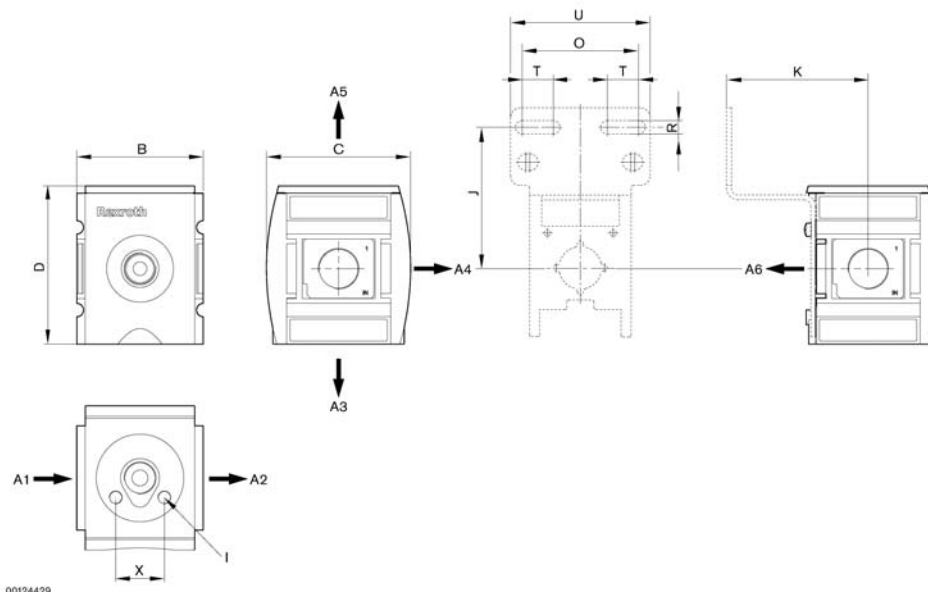
Part no.

Symbol	Threaded ports	Nominal flow Q_n [l/min] (SCFM)	Weight [kg] (lbs)	Part no.
	G 3/8	7250 (256) (A1-A2) 5500 (194) (A1-A3) 2250 (79) (A1-A4) 2250 (79) (A1-A5) 2250 (79) (A1-A6)	0,320 (0.705)	R412007250
	G 1/2	7250 (256) (A1-A2) 5500 (194) (A1-A3) 2250 (79) (A1-A4) 2250 (79) (A1-A5) 2250 (79) (A1-A6)	0,320 (0.705)	R412007251



Accessories (to be ordered separately)

	Accessory	Part no.
	Mechanical pressure switch, pabs = 0.1 - 1 bar (1 - 15 psi) Mechanical vacuum/pressure switch, p1 = 0,2 - 3 bar (2 - 43 psi) Mechanical vacuum/pressure switch, p1 = 0,5 - 8 bar (7 - 116 psi) Mechanical pressure switch, p1 = 1 - 16 bar (15 - 232 psi)	0821100020 0821100021 0821100022 R961400021
	Mounting plate AS3-MBR-...-W01 Mounting strap AS3-MBR-...-W03 Block assembly kit AS3-MBR-...-W04 Block assembly kit (G 3/8) AS3-MBR-G038...-W05 Block assembly kit (G 1/2) AS3-MBR-G012...-W05 Seals for pressure switch	R412007368 R412007370 R412007371 R412007366 R412007367 R961400021



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A1 A2	A3	A4 A6	A5	B	C	D	I	J	K	O	R	T	U	X
G 3/8	G 1/2	G 3/8	G 1/4	63	74	80,5	M5	72,5	71	60	7	16	72	20
G 1/2	G 1/2	G 3/8	G 1/4	63	74	80,5	M5	72,5	71	60	7	16	72	20



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Compr. air maintenance unit, series AS2

Mounting bracket AS2-MBR-...-W01



★

Mounting plate AS2-MBR-...-W01

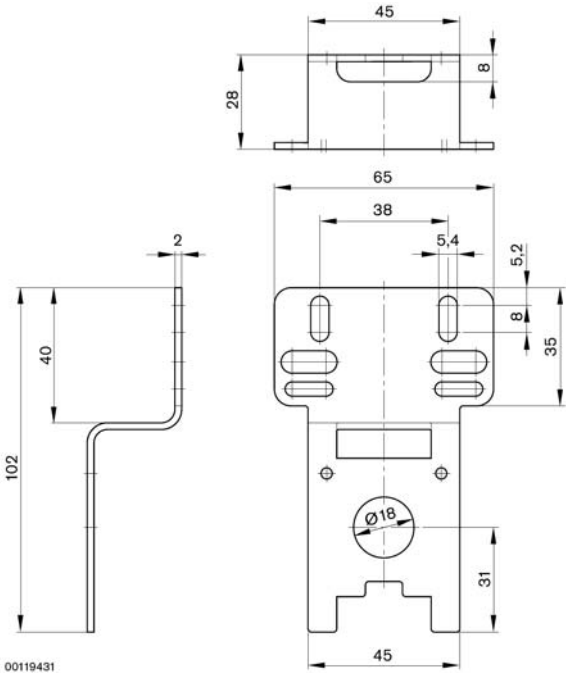
Weight	See table
Materials	Sheet metal, galvanized
Suitable for all individual devices	Self-tapping Torx screws
2 screws supplied loose	



★

Part no.

Weight [lbs]	Part no.
0.14	R412006368



A	B	C	D	E	F	G	H	I	L	O	R	T	U
1.890	0.315	1.102	4.016	1.575	0.079	0.205	1.378	1.220	0.787	1.496	0.213	0.315	2.559

Dimensions in inches

Compr. air maintenance unit, series AS2

Mounting strap AS2-MBR-...-W03



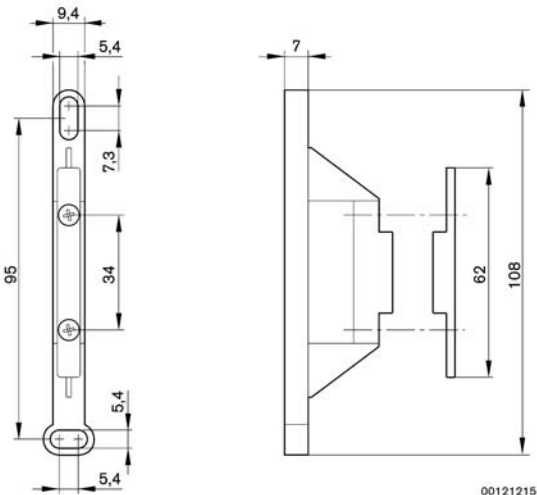
Mounting strap AS2-MBR-...-W03

Weight	See table
Materials	PA 66 (Polyamide 6.6)
Suitable for all individual devices 2 screws supplied loose	



Part no.

Weight [lbs]	Part no.
0.03	R412006370



A	B	C	D	E	F	G	H	I
4.252	2.441	3.740	0.287	1.339	0.213	0.276	0.370	0.213

Dimensions in inches

Block assembly kit AS2-MBR-...-W04

Weight

Materials

2 screws supplied loose

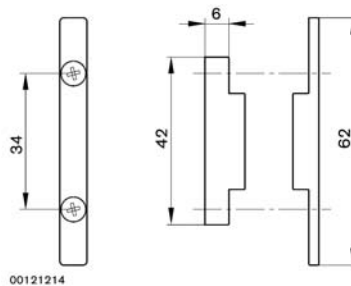


➔ ★

Weight [lbs]

Part no.

R412006371



A	B	C	D
2.441	1.654	1.339	0.236

2.441
Dimensions in inches

Compr. air maintenance unit, series AS2-Inch

Mounting flange kit AS2-MBR-...-W05 Inch Version

Rexroth
Bosch Group

★ Mounting flange kit AS2-MBR-...-W05

Weight See table

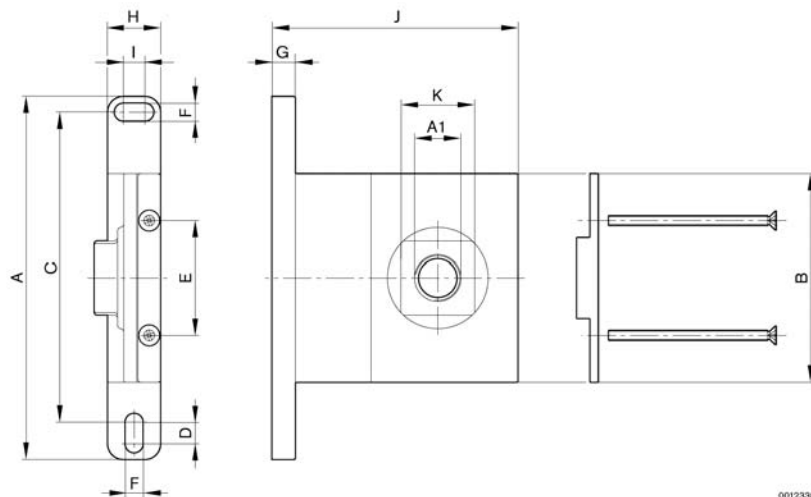
Materials Zn - diecasting

► Two block assembly elements (IN/OUT)
4 mounting screws and 2 O-rings supplied loose



► ★ Part no.

Threaded ports	Weight [lbs]	Part no.
1/4-18 NPTF	1.047	R432000729
3/8-18 NPTF	1.047	R432000730



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A1	A	B	C	D	E	F	G	H	I	J	K
1/4 NPTF	4.26	2.443	3.61	0.288	1.34	0.213	0.276	0.63	0.288	2.87	0.867
3/8 NPTF	4.26	2.443	3.61	0.288	1.34	0.213	0.276	0.63	0.288	2.87	0.867

Dimensions in inches

Compr. air maintenance unit, series AS2-Metric

Mounting flange kit AS2-MBR-...-W05 Metric version

Rexroth
Bosch Group

★ Mounting flange kit AS2-MBR-...-W05

Weight See table

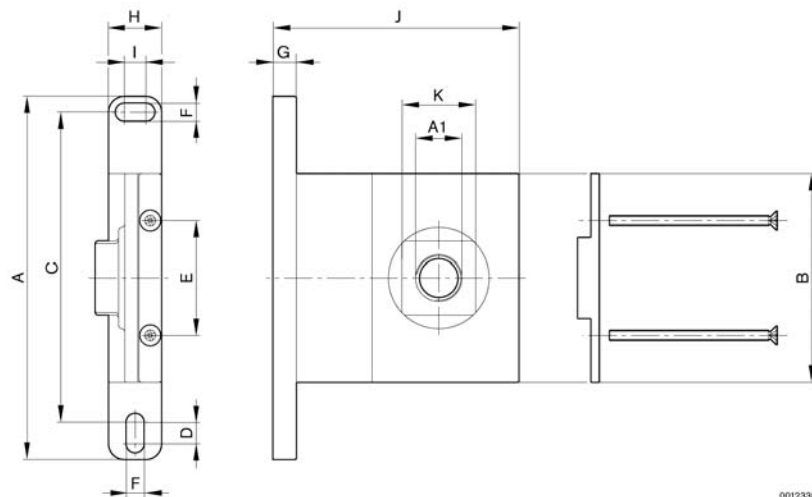
Materials Zn - diecasting

► Two block assembly elements (IN/OUT)
4 mounting screws and 2 O-rings supplied loose



► ★ Part no.

Threaded ports	Weight [kg](lbs.)	Part no.
G 1/4	0,475 (1.047)	R412006366
G 3/8	0,475 (1.047)	R412006367



A1	A	B	C	D	E	F	G	H	I	J	K
G 1/4	108	62	91,5	7,3	34	5,4	7	16	7,3	73	22
G 3/8	108	62	91,5	7,3	34	5,4	7	16	7,3	73	22

Control panel nut AS2-MBR-...-W06 (for Inch or Metric versions)

★ Control panel nut AS2-MBR-...-W06

Materials	PA 66 (Polyamide 6.6)
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Dimensions in inches

Compr. air maintenance unit, series AS2

Transition plate AS2-...-CNOMO



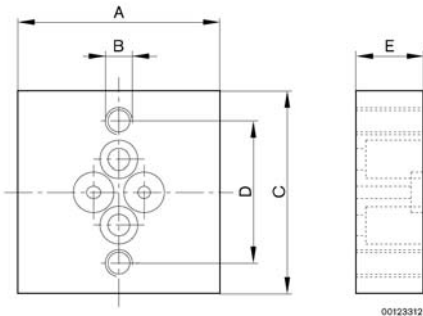
★ Transition plate AS2-...-CNOMO

Weight	See table
Materials	Aluminum
2 attachment bolts supplied loose	



★ Part no.

Weight [lbs]	Part no.
0.055	R412006360



A	B	C	D	E
1.182	M4	1.182	0.827	0.394

Dimensions in inches

Compr. air maintenance unit, series AS2

Reservoir AS2-CBS/-CLA/-CLS



Reservoir AS2-CBS/-CLA/-CLS

Materials	Reservoir	Polycarbonate with bayonet catch
	Protective guard	PA

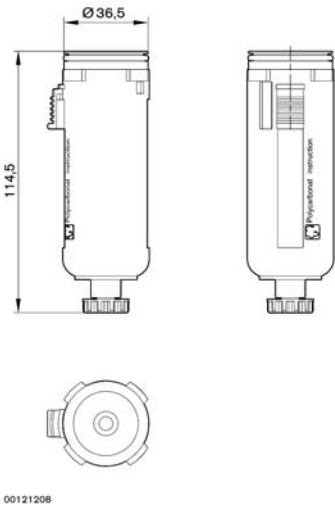
Plastic containers may only be cleaned with water, soap suds, and other similar, neutral agents.



Part no.

For threaded ports	With options	Weight [lbs]	Part no.
NPTF or G	PC container (standard) with PA protective guard, semi-automatic, without pressure: open	0.17	R412006338
NPTF or G	PC container (standard) with PA protective guard, fully automatic, without pressure: open	0.26	R412006339
NPTF or G	PC container (standard) with PA protective guard, fully automatic, without pressure: closed	0.26	R412006340
NPTF or G	PC container, activated carbon filter, with PA protective guard	1.7	R412006347
NPTF or G	PC container, lubricator	1.7	R412006352

Standard PC container with PA protective guard, semi-automatic, without pressure: open



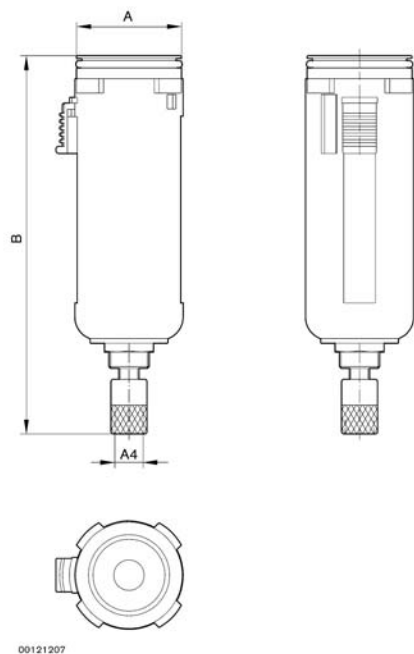
Part no.	A	B
R412006338	1.437	4.508

Dimensions in inches

Compr. air maintenance unit, series AS2
Reservoir AS2-CBS/-CLA/-CLS

Rexroth
Bosch Group

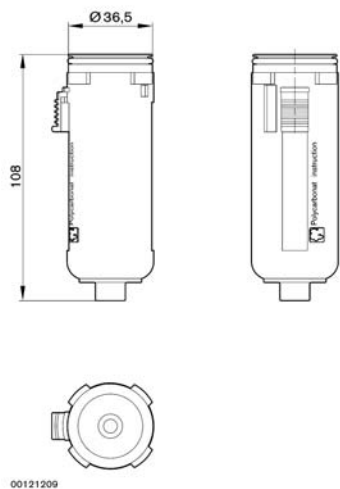
Standard PC container with PA protective guard, fully automatic, without pressure: open



Part no.	A4	A	B
R412006339	G 1/8	1.437	5.177
R412006340	G 1/8	1.437	5.177

Dimensions in inches

PC container, activated carbon filter / oil-mist lubricator with PA protective guard



Part no.	Model	A	B
R412006347	CLA	1.437	4.252
R412006352	CBS	1.437	4.252

Dimensions in inches

Compr. air maintenance unit, series AS3

Mounting bracket AS3-MBR-...-W01

Rexroth
Bosch Group

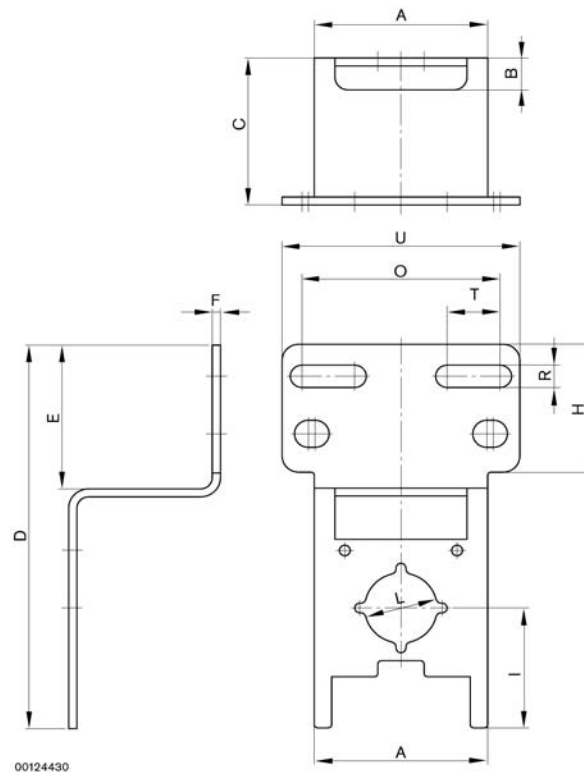
★ Mounting bracket AS3-MBR-...-W01

Weight	See table
Materials	Sheet metal, galvanized
Suitable for all individual devices 2 screws supplied loose	Self-tapping Torx screws



★ Part no.

Weight [lbs.]	Part no.
0.287	R412007368



A	B	C	D	E	F	G	H	I	L	O	R	T	U
2.067	0.394	1.811	4.724	1.772	0.098	0.394	1.575	1.476	0.866	2.362	0.276	0.630	2.835

Dimensions in inches

Compr. air maintenance unit, series AS3 Mounting strap AS3-MBR-...-W03



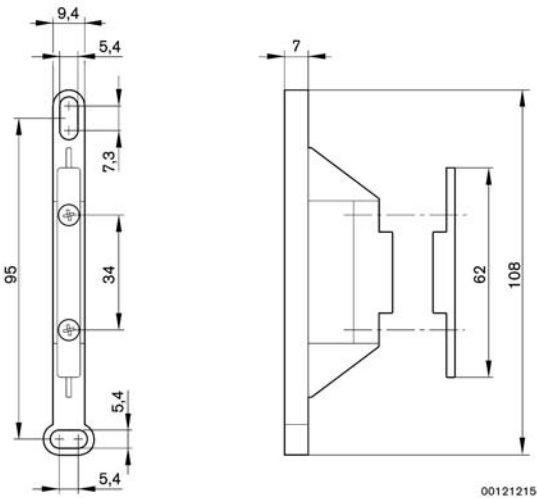
Mounting strap AS3-MBR-...-W03

Weight	See table
Materials	PA 66 (Polyamide 6.6)
Suitable for all individual devices	
2 screws supplied loose	



Part no.

Weight [lbs.]	Part no.
0.121	R412007370



A	B	C	D	E	F	G	H	I
4.724	2.953	4.094	0.315	1.654	0.252	0.472	0.472	0.315

Dimensions in inches

Compr. air maintenance unit, series AS3

Block assembly kit AS3-MBR-...-W04



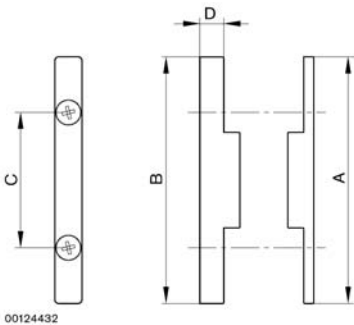
 Block assembly kit AS3-MBR-...-W04

Weight	See table
Materials	PA 66 (Polyamide 6.6)
2 screws supplied loose	



 Part no.

Weight [lbs.]	Part no.
0.071	R412007371



A	B	C	D
2.953	2.953	1.654	0.492
Dimensions in inches			

Compr. air maintenance unit, series AS3-Inch

Mounting flange kit kit AS3-MBR-...-W05 Inch version

Rexroth
Bosch Group

★ Mounting flange kit AS3-MBR-...-W05

Weight See table

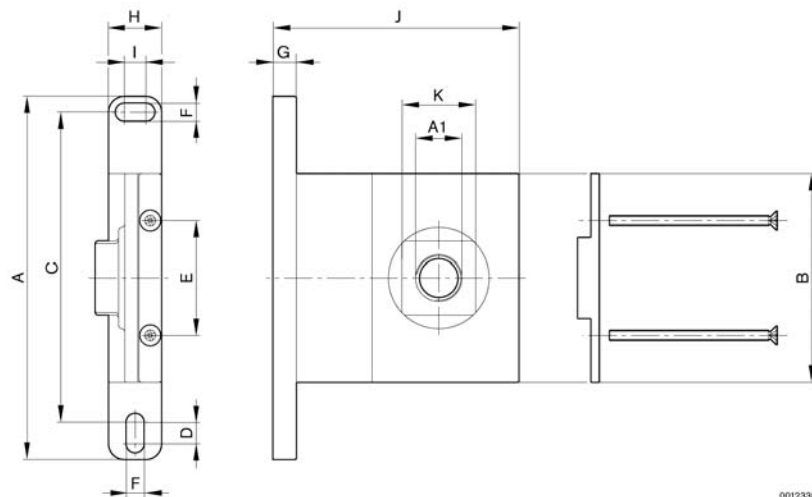
Materials Zn - diecasting

► Two block assembly elements (IN/OUT)
4 mounting screws and 2 O-rings supplied loose



► ★ Part no.

Threaded ports	Weight [lbs.]	Part no.
3/8 NPTF	1.82	R432002017
1/2 NPTF	1.82	R432002018



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A1	A	B	C	D	E	F	G	H	I	J	K
3/8 NPTF	4.724	2.953	4.094	0.315	1.654	0.252	0.276	0.787	0.315	4.035	1.181
1/2 NPTF	4.724	2.953	4.094	0.315	1.654	0.252	0.276	0.787	0.315	4.035	1.181

Dimensions in inches

Compr. air maintenance unit, series AS3-Metric

Mounting flange kit AS3-MBR-...-W05 Metric version

Rexroth
Bosch Group

★ Mounting flange kit AS3-MBR-...-W05

Weight See table

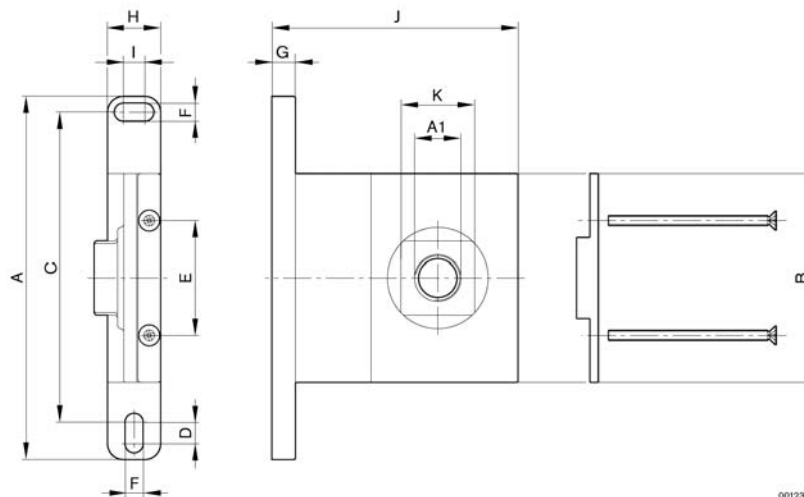
Materials Zn - diecasting

► Two block assembly elements (IN/OUT)
4 mounting screws and 2 O-rings supplied loose



► ★ Part no.

Threaded ports	Weight [kg](lbs.)	Part no.
G 3/8	0,825 (1.82)	R412007366
G 1/2	0,825 (1.82)	R412007367



A1	A	B	C	D	E	F	G	H	I	J	K
G 3/8	120	75	104	8	42	6,4	7	20	8	102,5	30
G 1/2	120	75	104	8	42	6,4	7	20	8	102,5	30